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FIG. 1

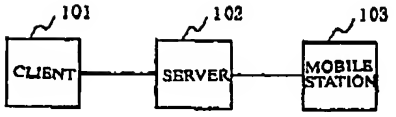

FIG. 2

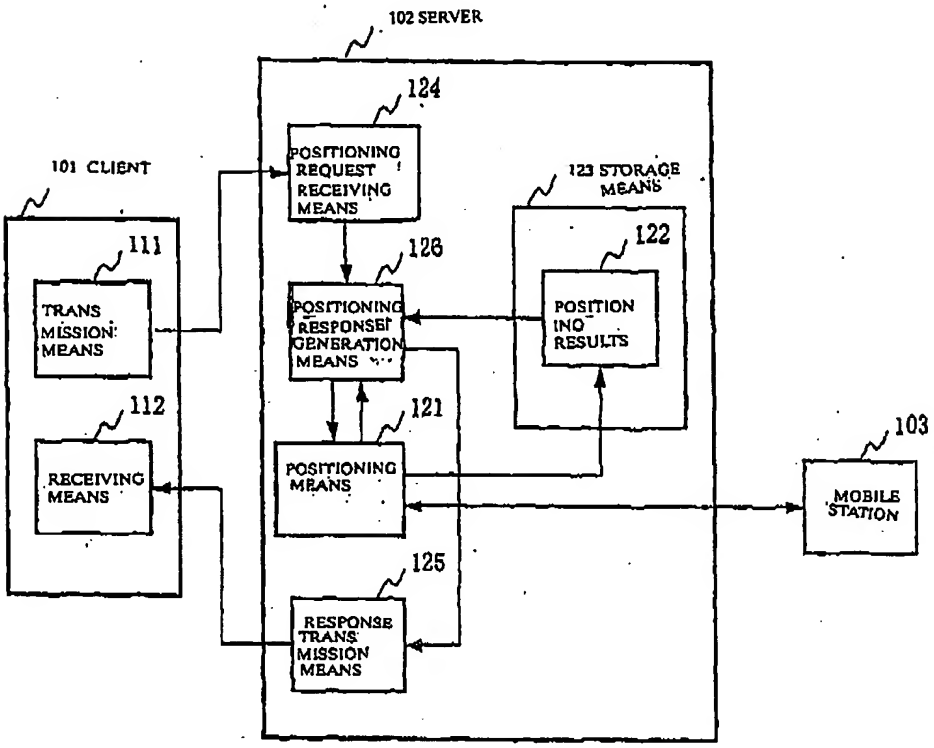
102 SERVER
124
POSITIONING REQUEST RECEIVING MEANS
101 CLIENT
123 STORAGE MEANS
122
126
POSITIONING RESPONSE GENERATION MEANS
POSITION INQ RESULTS
111
TRANS MISSION MEANS
112
121
103
RECEIVING MEANS
POSITIONING MEANS
MOBILE STATION
125
RESPONSE TRANS MISSION MEANS

FIG. 3

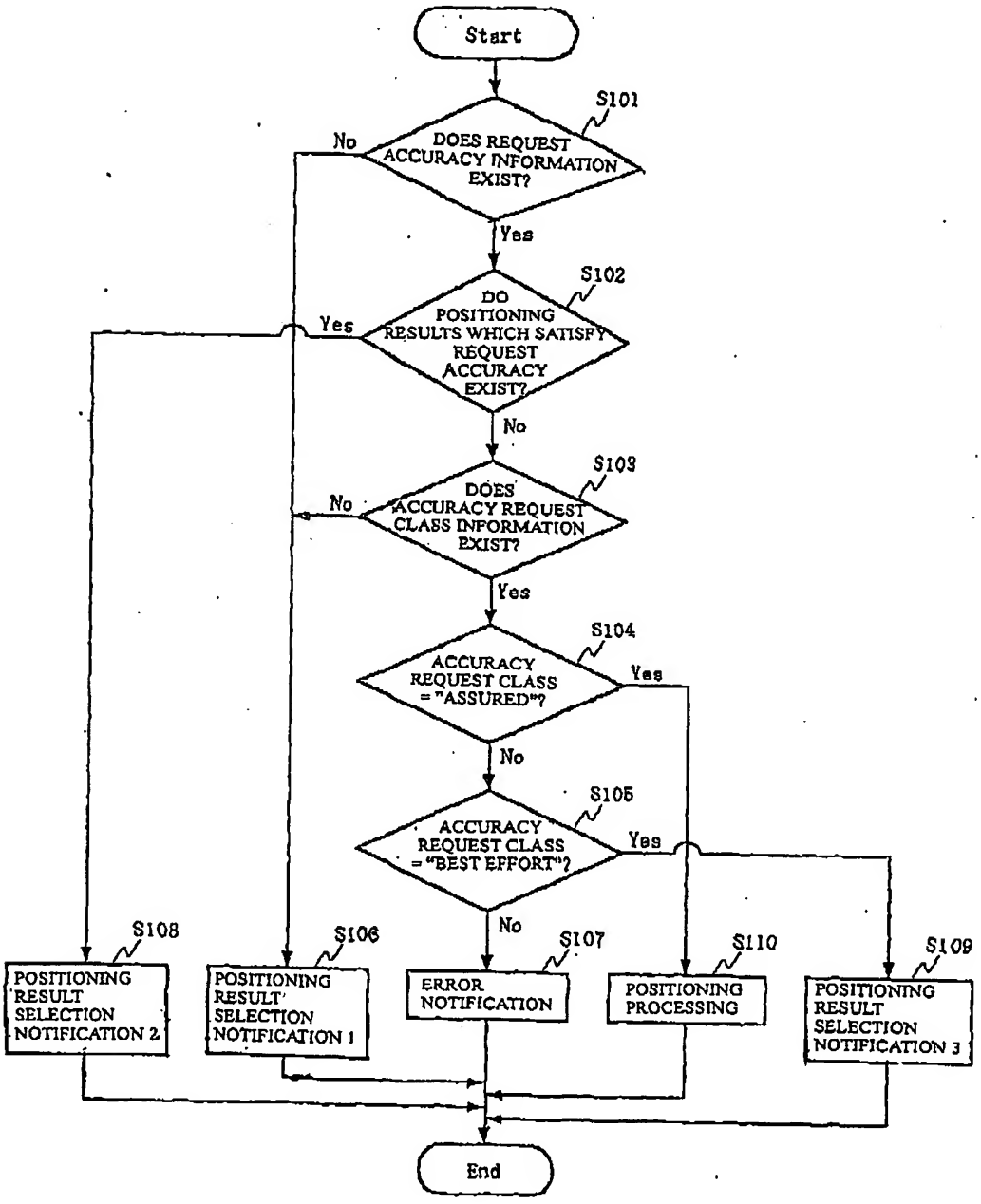
Start
S101
DOES REQUEST ACCURACY INFORMATION EXIST?
No
Yes
S102
DO POSITIONING RESULTS WHICH SATISFY REQUEST ACCURACY EXIST?
Yes
No
S103
DOES ACCURACY REQUEST CLASS INFORMATION EXIST?
No
Yes
S104
ACCURACY REQUEST CLASS = "ASSURED"?
Yes
No
S105
ACCURACY REQUEST CLASS = "BEST EFFORT"?
Yes
No
S108
POSITIONING RESULT SELECTION NOTIFICATION 2
S106
POSITIONING RESULT SELECTION NOTIFICATION 1
S107
ERROR NOTIFICATION
S110
POSITIONING PROCESSING
S109
POSITIONING RESULT SELECTION NOTIFICATION 3
End

FIG. 4

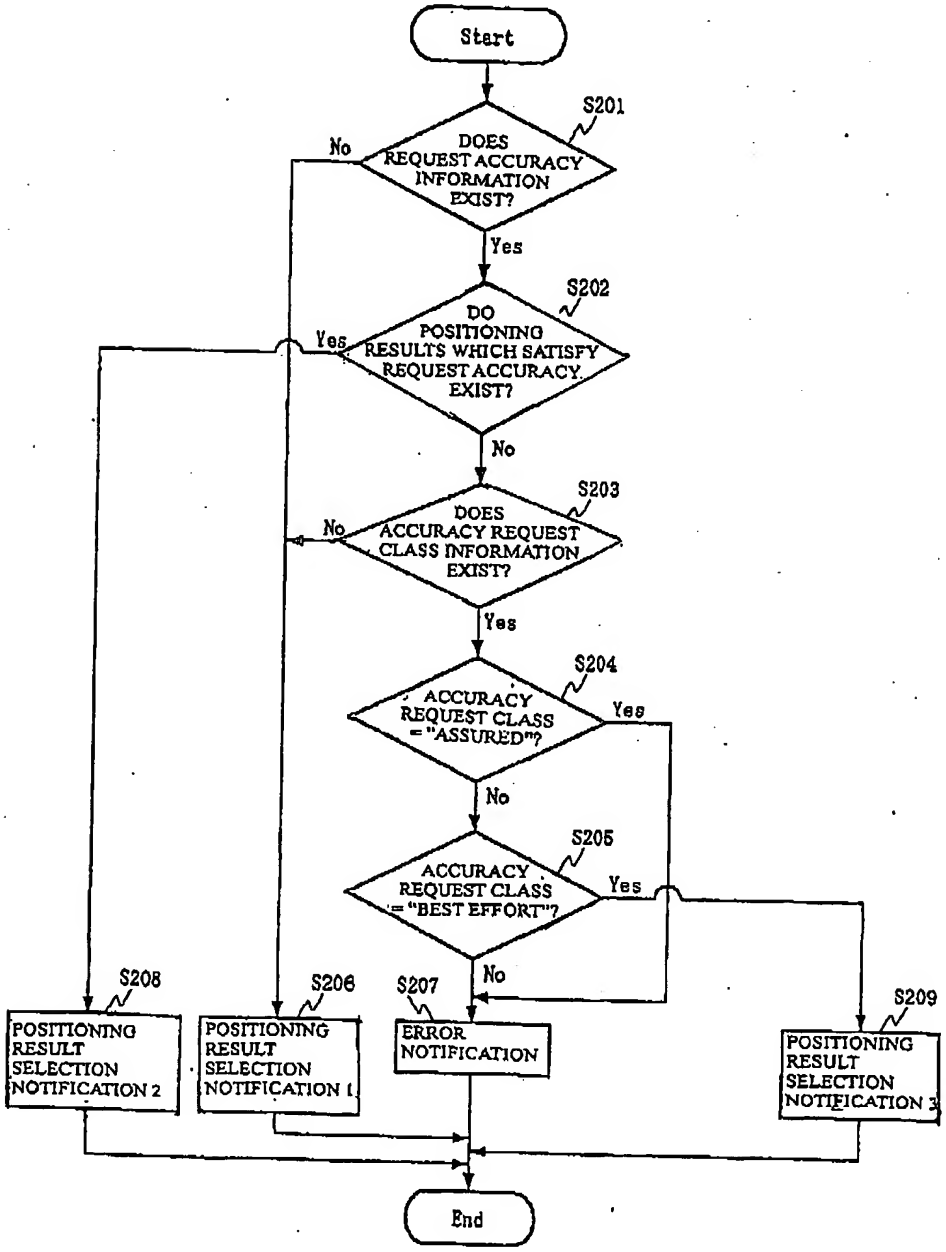
Start
S201
DOES REQUEST ACCURACY INFORMATION EXIST?
No
Yes
S202
DO POSITIONING RESULTS WHICH SATISFY REQUEST ACCURACY EXIST?
Yes
No
S203
DOES ACCURACY REQUEST CLASS INFORMATION EXIST?
No
Yes
S204
ACCURACY REQUEST CLASS = "ASSURED"?
Yes
No
S205
ACCURACY REQUEST CLASS = "BEST EFFORT"?
Yes
No
S208
POSITIONING RESULT SELECTION NOTIFICATION 2
S206
POSITIONING RESULT SELECTION NOTIFICATION 1
S207
ERROR NOTIFICATION
S209
POSITIONING RESULT SELECTION NOTIFICATION 3
End

FIG. 5

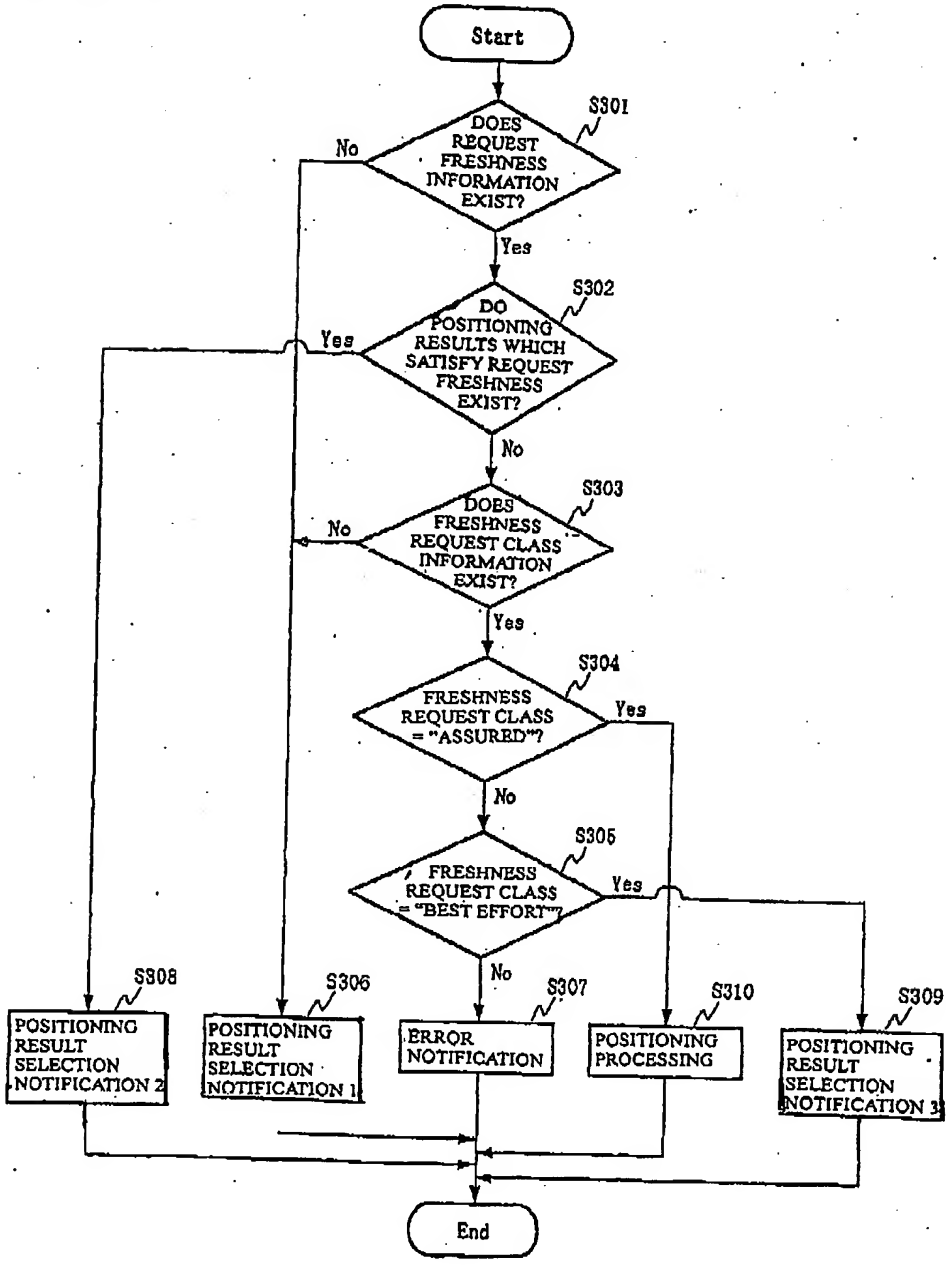
Start
S301
DOES REQUEST FRESHNESS INFORMATION EXIST?
No
Yes
S302
DO POSITIONING RESULTS WHICH SATISFY REQUEST FRESHNESS EXIST?
Yes
No
S303
DOES FRESHNESS REQUEST CLASS INFORMATION EXIST?
No
Yes
S304
FRESHNESS REQUEST CLASS = "ASSURED"?
Yes
No
S305
FRESHNESS REQUEST CLASS = "BEST EFFORT"?
Yes
No
S308
POSITIONING RESULT SELECTION NOTIFICATION 2
S306
POSITIONING RESULT SELECTION NOTIFICATION 1
S307
ERROR NOTIFICATION
S310
POSITIONING PROCESSING
S309
POSITIONING RESULT SELECTION NOTIFICATION 3
End

FIG. 6

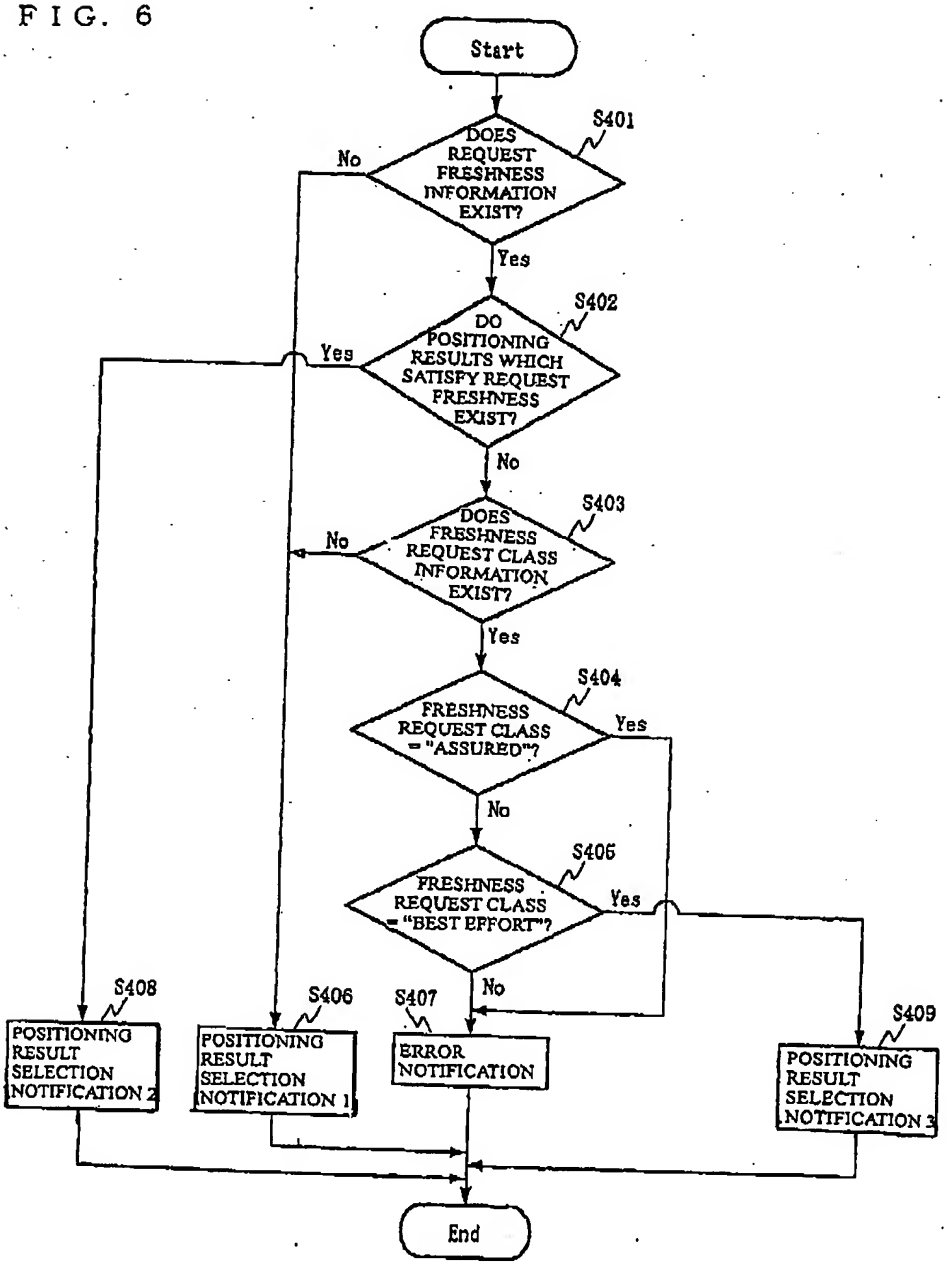
Start
S401
DOES REQUEST FRESHNESS INFORMATION EXIST?
No
Yes
S402
DO POSITIONING RESULTS WHICH SATISFY REQUEST FRESHNESS EXIST?
Yes
No
S403
DOES FRESHNESS REQUEST CLASS INFORMATION EXIST?
No
Yes
S404
FRESHNESS REQUEST CLASS = "ASSURED"?
Yes
No
S405
FRESHNESS REQUEST CLASS = "BEST EFFORT"?
Yes
No
S408
POSITIONING RESULT SELECTION NOTIFICATION 2
S406
POSITIONING RESULT SELECTION NOTIFICATION 1
S407
ERROR NOTIFICATION
S409
POSITIONING RESULT SELECTION NOTIFICATION 3
End

FIG. 7

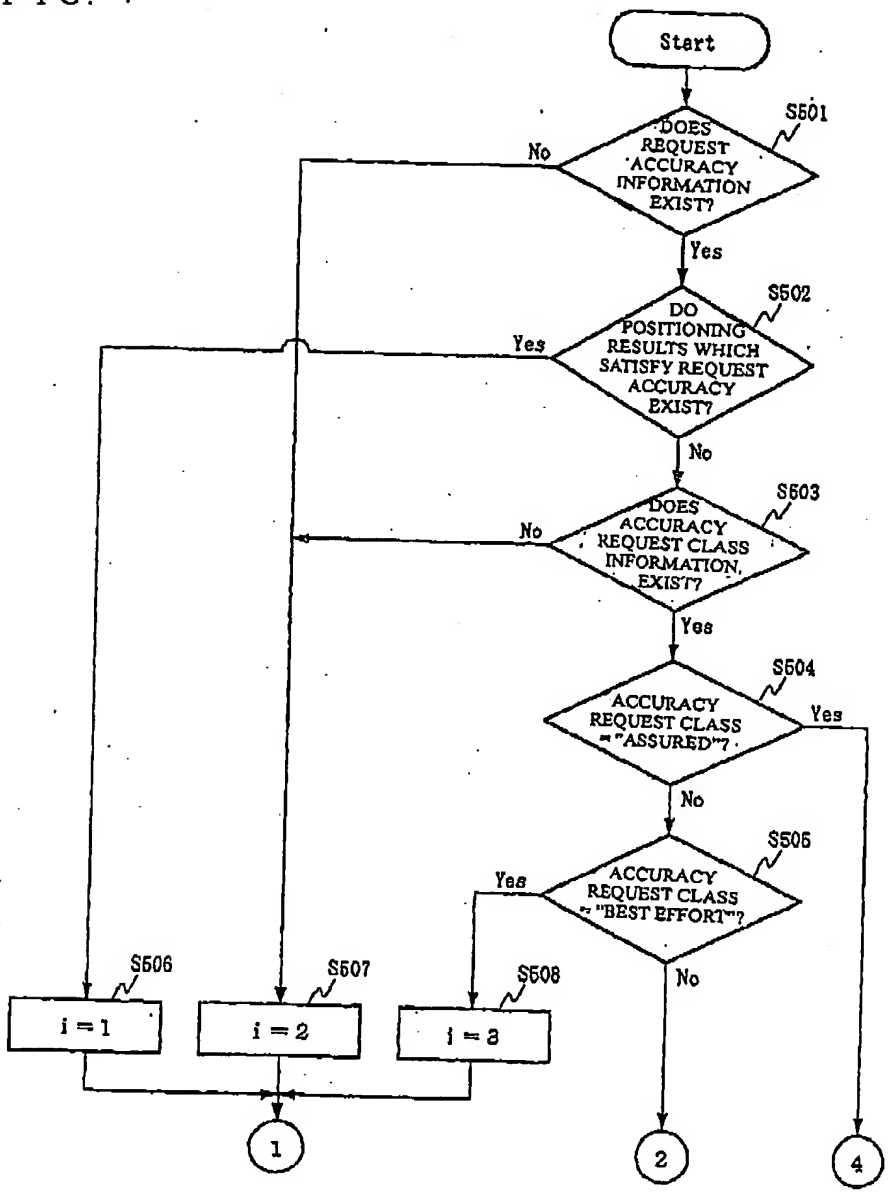
Start
S501
DOES REQUEST ACCURACY INFORMATION EXIST?
No
Yes
S502
DO POSITIONING RESULTS WHICH SATISFY REQUEST ACCURACY EXIST?
Yes
No
S503
DOES ACCURACY REQUEST CLASS INFORMATION EXIST?
No
Yes
S504
ACCURACY REQUEST CLASS = "ASSURED"?
Yes
No
S505
ACCURACY REQUEST CLASS = "BEST EFFORT"?
Yes
No
S506
i = 1
S507
i = 2
S508
i = 3
1
2
4

FIG. 8

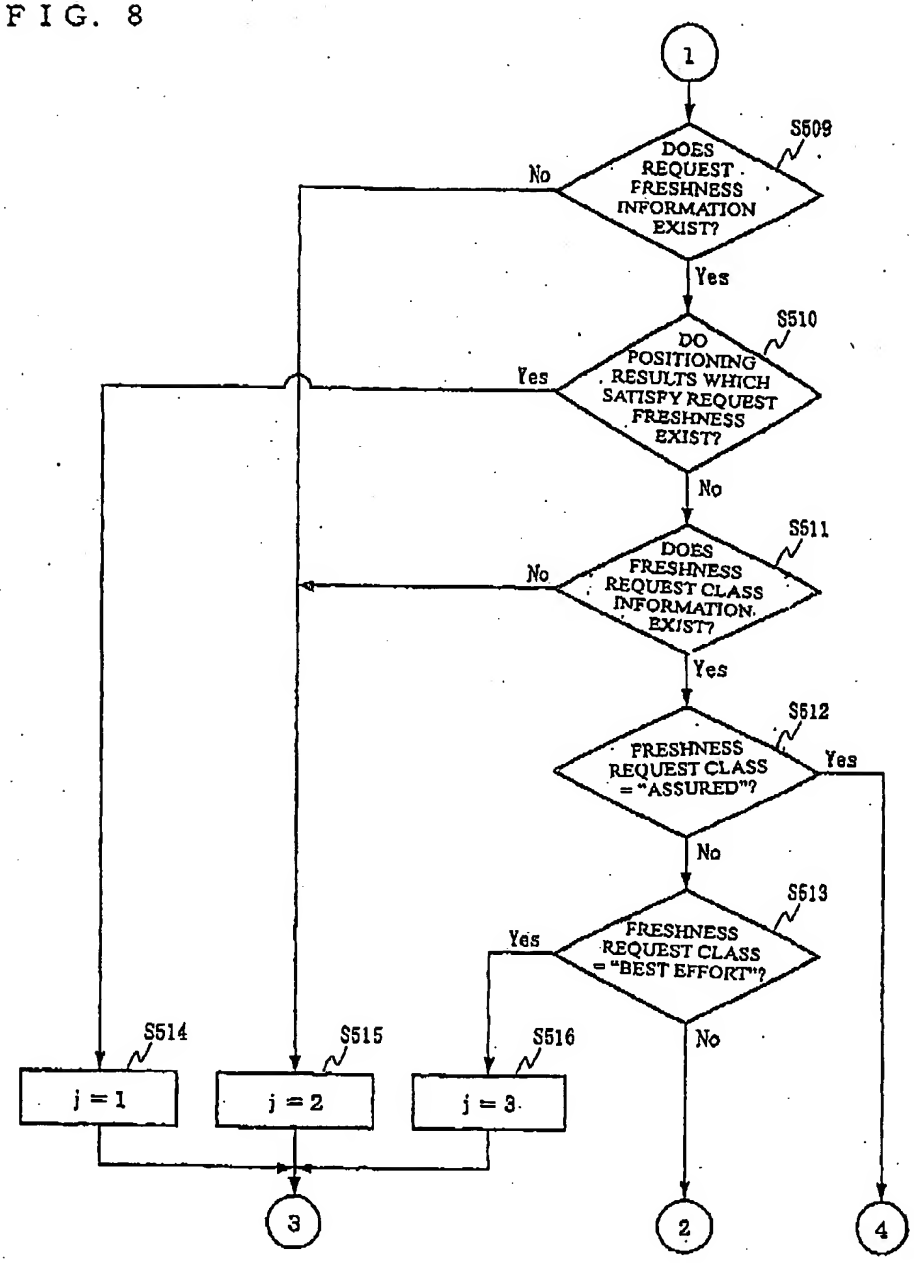
1
S509
DOES REQUEST FRESHNESS INFORMATION EXIST?
No
Yes
S510
DO POSITIONING RESULTS WHICH SATISFY REQUEST FRESHNESS EXIST?
Yes
No
S511
DOES FRESHNESS REQUEST CLASS INFORMATION EXIST?
No
Yes
S512
FRESHNESS REQUEST CLASS = "ASSURED"?
Yes
No
S513
FRESHNESS REQUEST CLASS = "BEST EFFORT"?
Yes
No
S514
j = 1
S515
j = 2
S516
j = 3
3
2
4

FIG. 9

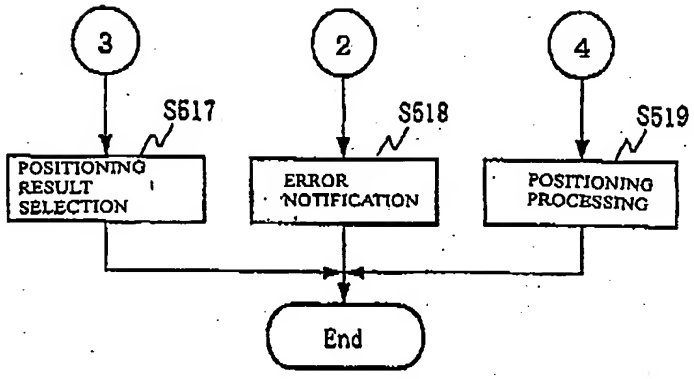
3
2
4
S517
S518
S519
POSITIONING RESULT SELECTION
ERROR NOTIFICATION
POSITIONING PROCESSING
End

FIG. 10

i	j	Positioning result selection processing	Number
1	1	Select positioning results which satisfy both request accuracy and request freshness.	5-1
	2	Select positioning results which satisfy request accuracy.	5-2
	3	Select positioning results which are as close to request freshness as possible among positioning results which satisfy request accuracy.	5-3
2	1	Select positioning results which satisfy request freshness.	5-4
	2	No selection conditions. Select arbitrary positioning results.	5-5
	3	Select positioning results which are as close to request freshness as possible.	5-6
3	1	Select positioning results which are as close to request freshness as possible among positioning results which satisfy request freshness.	5-7
	2	Select positioning results which are as close to request accuracy as possible.	5-8
	3	Select positioning results which are as close to request accuracy and request freshness as possible.	5-9

FIG. 11

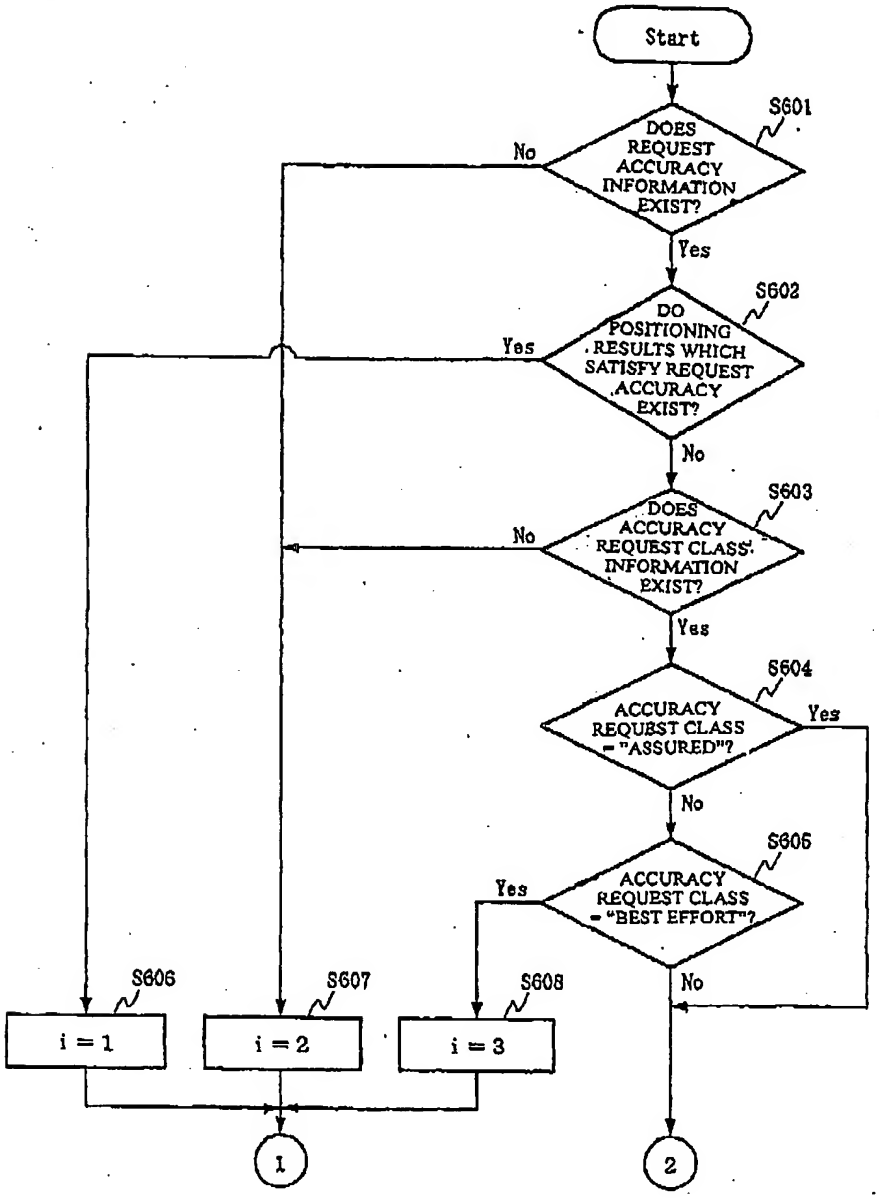
Start
S601
DOES REQUEST ACCURACY INFORMATION EXIST?
No
Yes
S602
DO POSITIONING RESULTS WHICH SATISFY REQUEST ACCURACY EXIST?
Yes
No
S603
DOES ACCURACY REQUEST CLASS INFORMATION EXIST?
No
Yes
S604
ACCURACY REQUEST CLASS = "ASSURED"?
Yes
No
S605
ACCURACY REQUEST CLASS = "BEST EFFORT"?
Yes
No
S606
S607
S608
i = 1
i = 2
i = 3
1
2

FIG. 12

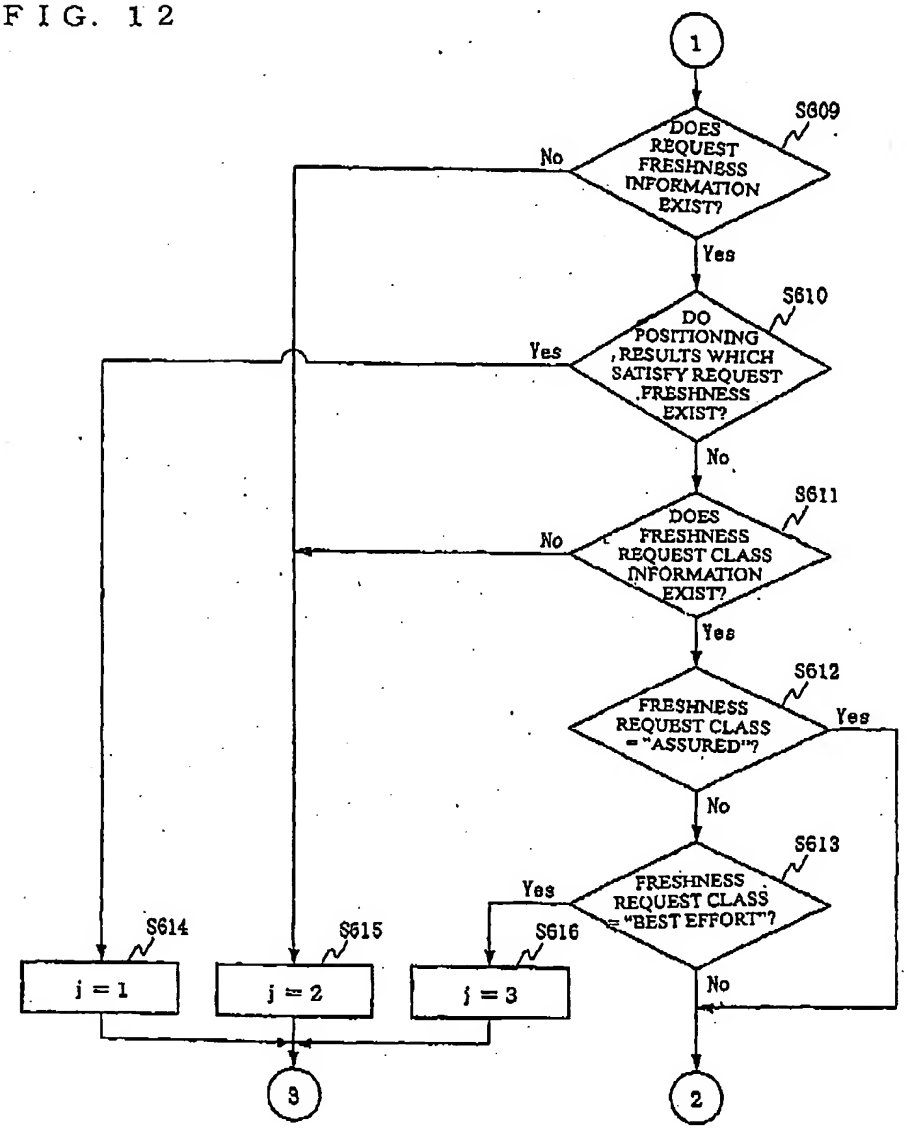
1
S609
DOES REQUEST FRESHNESS INFORMATION EXIST?
No
Yes
S610
DO POSITIONING RESULTS WHICH SATISFY REQUEST FRESHNESS EXIST?
Yes
No
S611
DOES FRESHNESS REQUEST CLASS INFORMATION EXIST?
No
Yes
S612
FRESHNESS REQUEST CLASS = "ASSURED"?
Yes
No
S613
FRESHNESS REQUEST CLASS = "BEST EFFORT"?
Yes
No
S614
j = 1
S615
j = 2
S616
j = 3
3
2

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FIG. 13

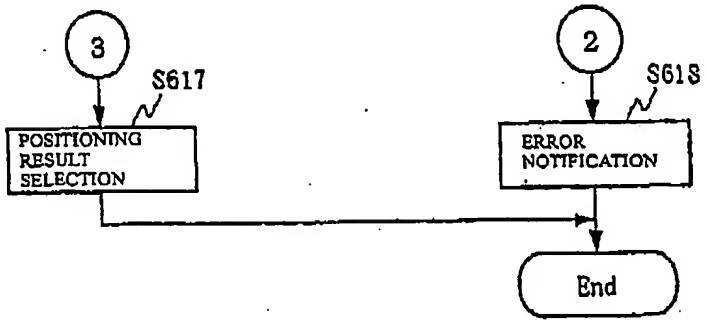

FIG. 14

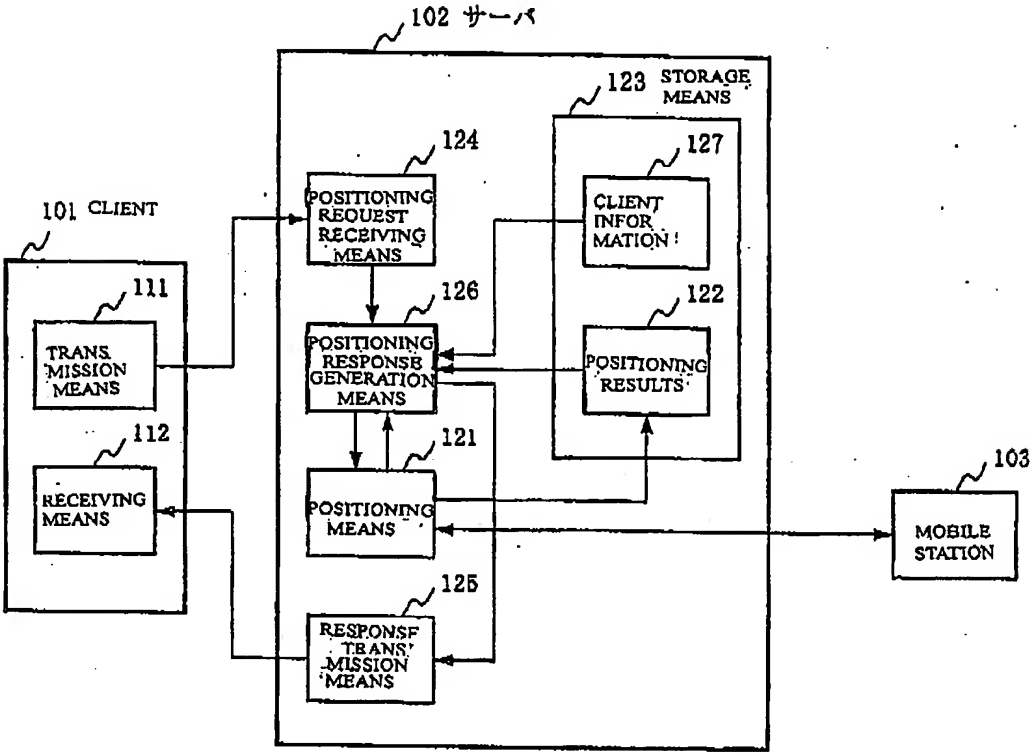
102 サーバ
123 STORAGE MEANS
124
127
101 CLIENT
POSITIONING REQUEST RECEIVING MEANS
CLIENT INFORMATION
111
126
122
TRANSMISSION MEANS
POSITIONING RESPONSE GENERATION MEANS
POSITIONING RESULTS
112
121
103
RECEIVING MEANS
POSITIONING MEANS
MOBILE STATION
125
RESPONSE TRANSMISSION MEANS

FIG. 15

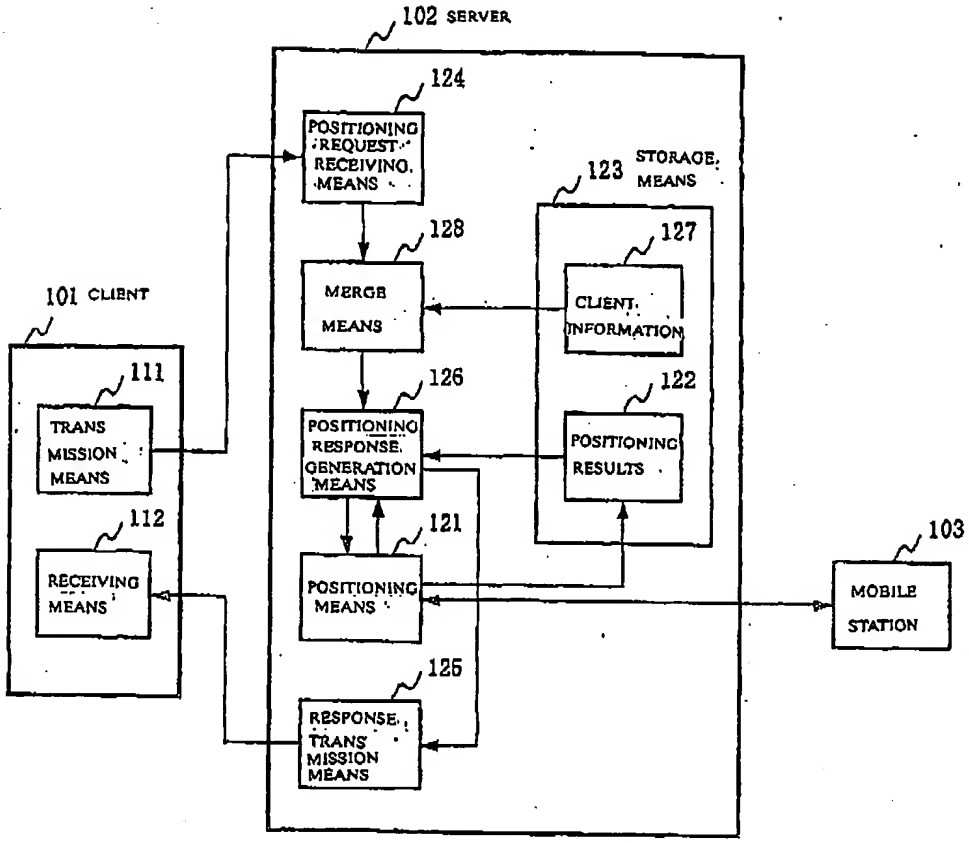
102 SERVER
124
POSITIONING REQUEST RECEIVING MEANS
123 STORAGE MEANS
128
127
MERGE MEANS
CLIENT INFORMATION
101 CLIENT
126
122
111
TRANS MISSION MEANS
POSITIONING RESPONSE GENERATION MEANS
POSITIONING RESULTS
112
121
103
RECEIVING MEANS
POSITIONING MEANS
MOBILE STATION
125
RESPONSE TRANS MISSION MEANS

FIG. 16

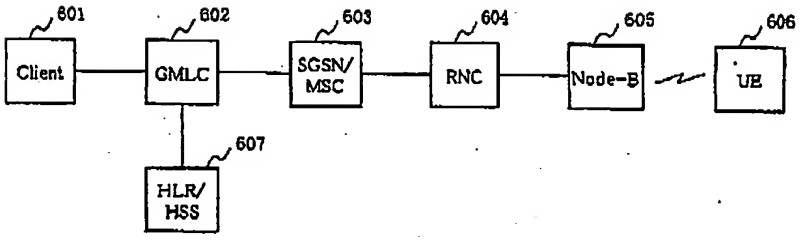
601
602
603
604
605
606
Client
GMLC
SGSN/
MSC
RNC
Node-B
UE
607
HLR/
HSS

FIG. 17

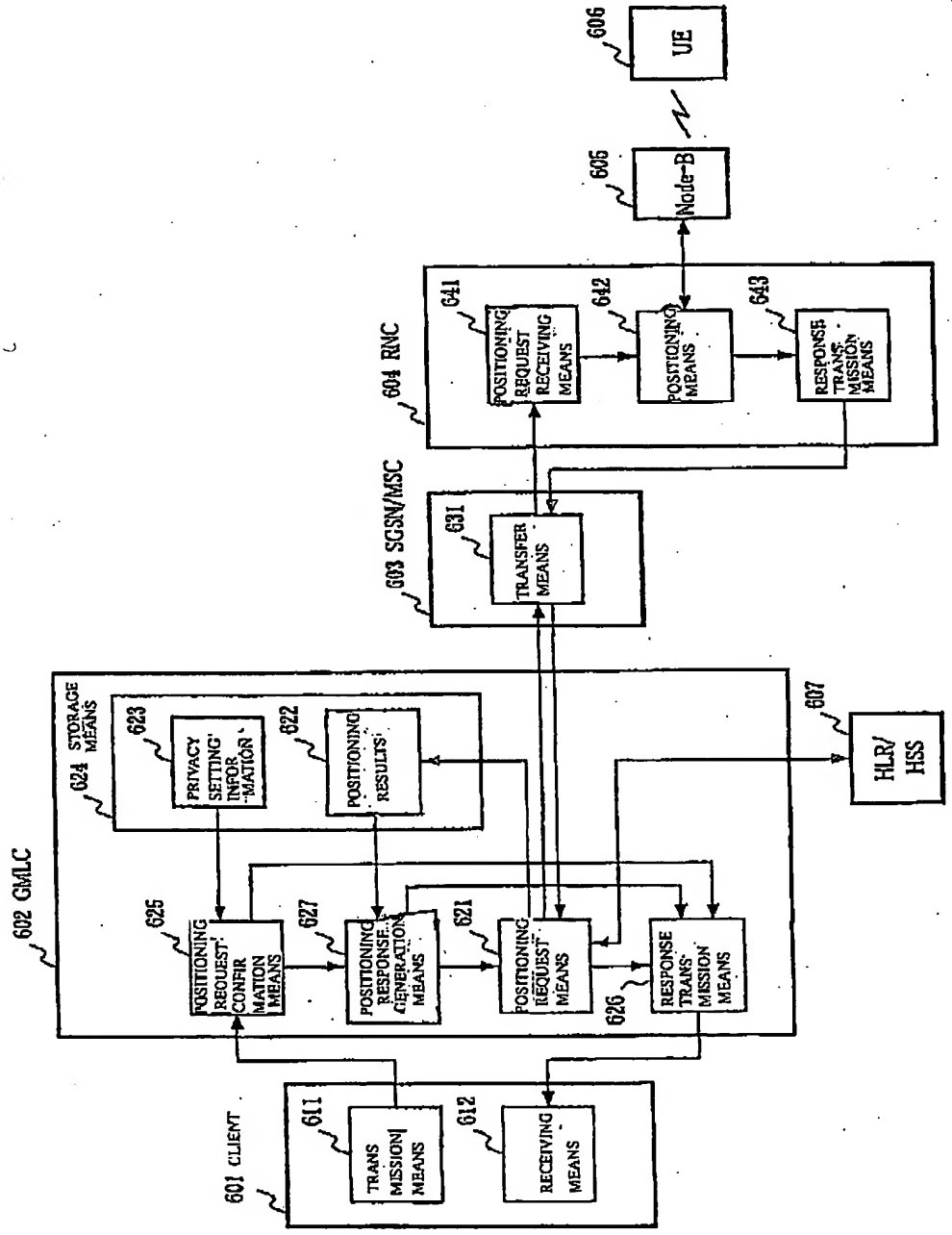
606
UE
605
Node-B
604 RNC
641
POSITIONING REQUEST RECEIVING MEANS
642
POSITIONING MEANS
643
RESPONSE TRANSMISSION MEANS
603 SGSN/MSC
631
TRANSFER MEANS
607
HLR/HSS
602 GMLC
624 STORAGE MEANS
623
PRIVACY SETTING INFORMATION
622
POSITIONING RESULTS
625
POSITIONING REQUEST CONFIRMATION MEANS
627
POSITIONING RESPONSE GENERATION MEANS
621
POSITIONING REQUEST MEANS
626
RESPONSE TRANSMISSION MEANS
601 CLIENT
611
TRANSMISSION MEANS
612
RECEIVING MEANS

FIG. 18

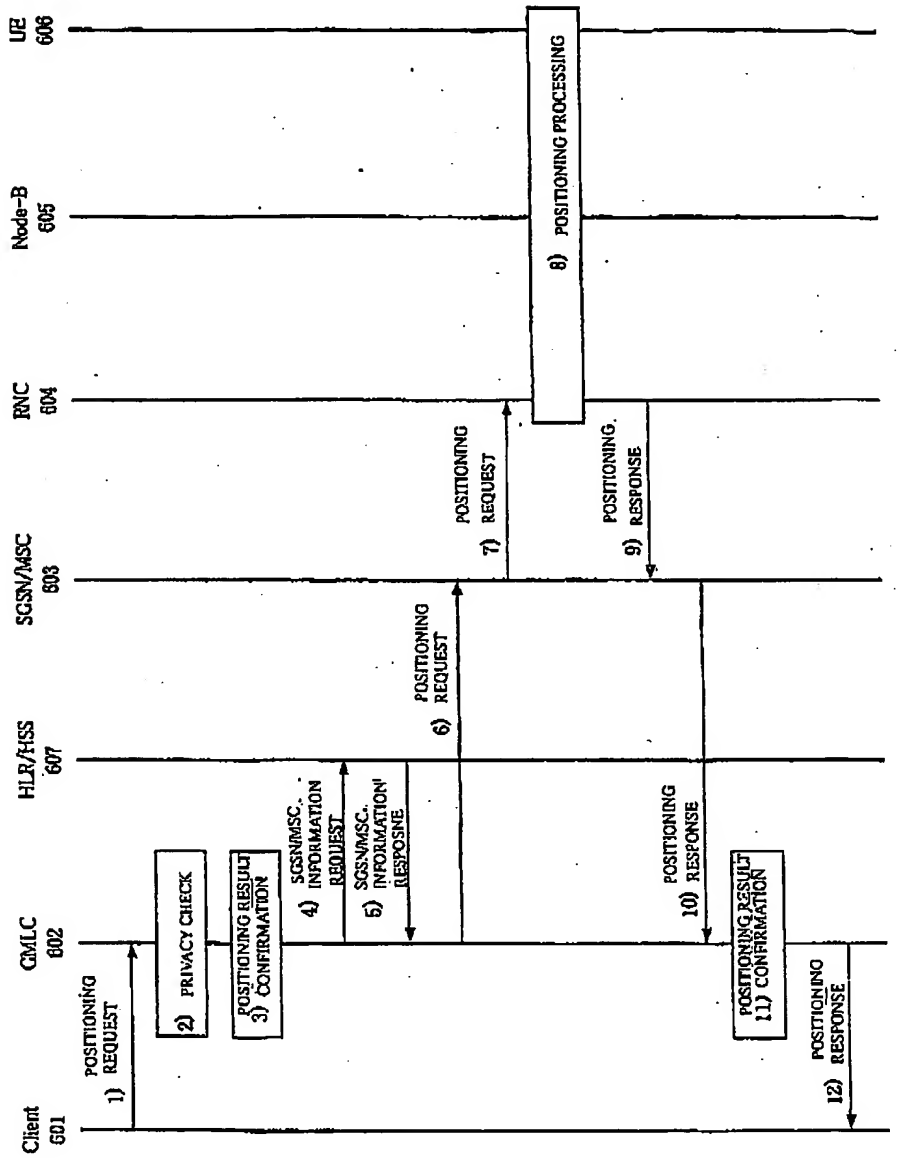
UE 606
Node-B 605
RNC 604
SGSN/MSC 603
HLR/HSS 607
GMLC 602
Client 601
8) POSITIONING PROCESSING
7) POSITIONING REQUEST
9) POSITIONING RESPONSE
6) POSITIONING REQUEST
4) SGSN/MSC. INFORMATION REQUEST
5) SGSN/MSC. INFORMATION RESPONSE
10) POSITIONING RESPONSE
1) POSITIONING REQUEST
2) PRIVACY CHECK
3) POSITIONING RESULT CONFIRMATION
11) POSITIONING RESULT CONFIRMATION
12) POSITIONING RESPONSE

FIG. 19

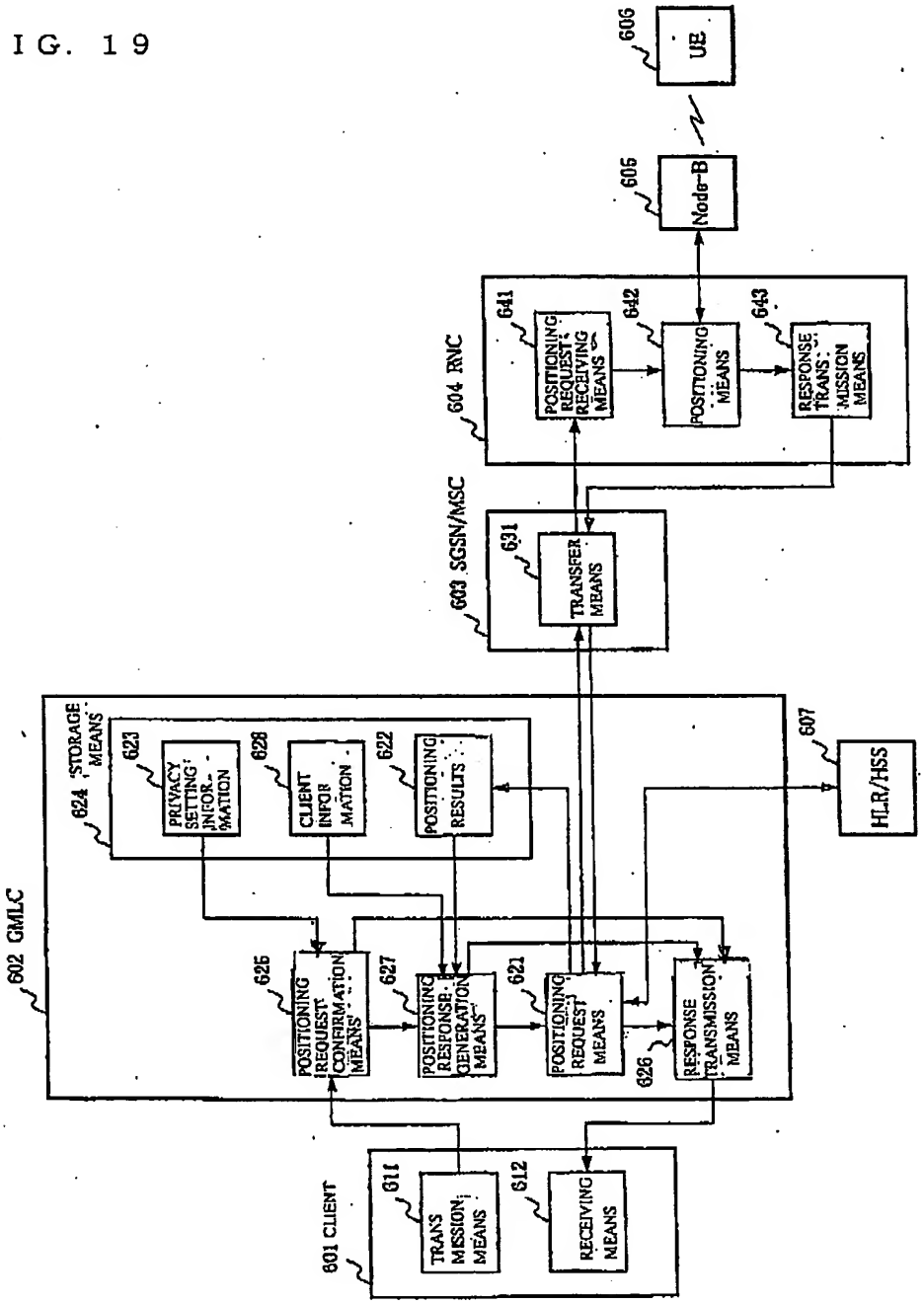
606
UE
605
Node-B
604 RNC
641
POSITIONING REQUEST RECEIVING MEANS
642
POSITIONING MEANS
643
RESPONSE TRANSMISSION MEANS
603 SGSN/MSC
631
TRANSFER MEANS
607
HLR/HSS
602 GMLC
624 STORAGE MEANS
623
PRIVACY SETTING INFORMATION
628
CLIENT INFORMATION
622
POSITIONING RESULTS
625
POSITIONING REQUEST CONFIRMATION MEANS
627
POSITIONING RESPONSE GENERATION MEANS
621
POSITIONING REQUEST MEANS
626
RESPONSE TRANSMISSION MEANS
601 CLIENT
611
TRANSMISSION MEANS
612
RECEIVING MEANS

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FIG. 20

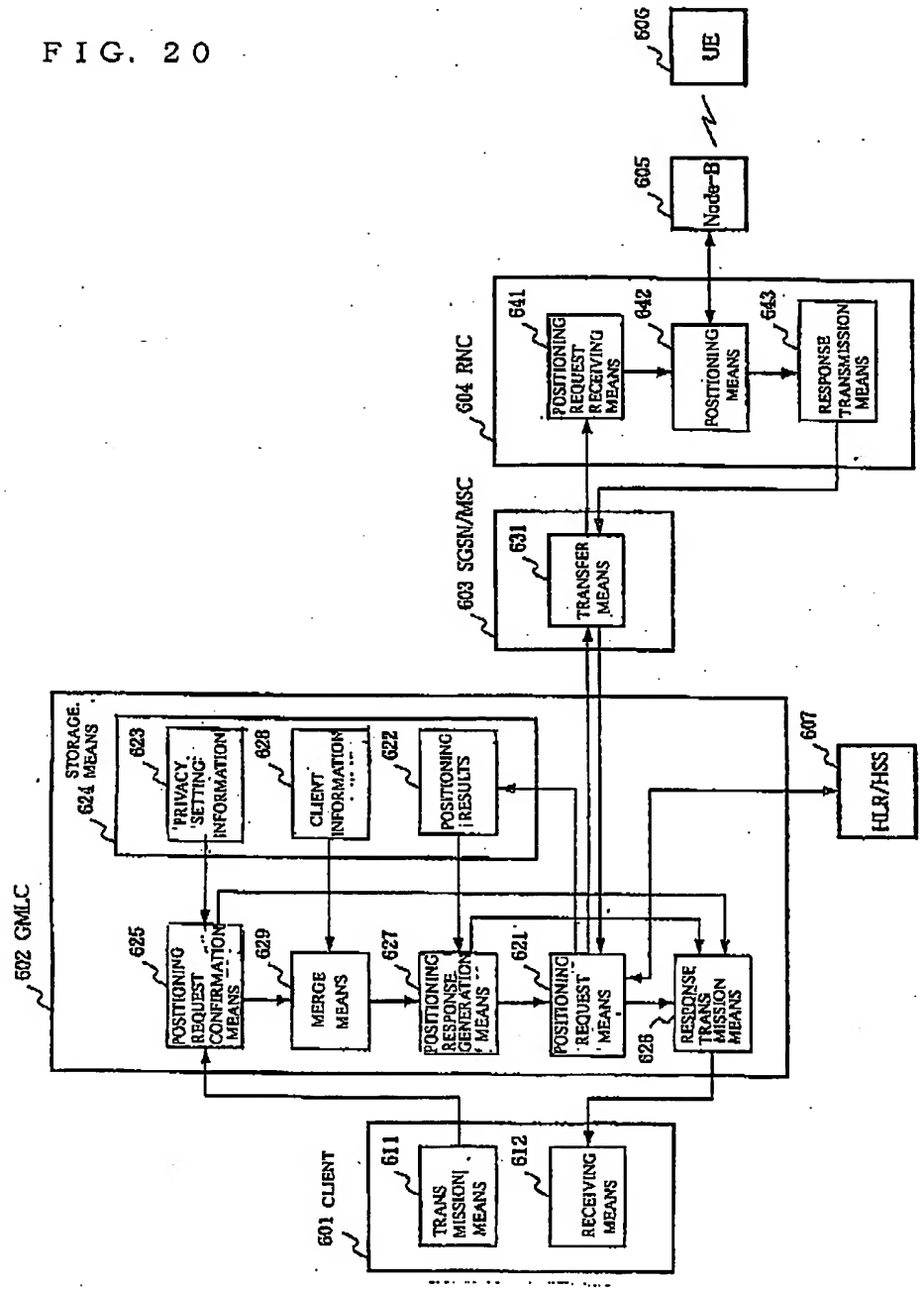

FIG. 21

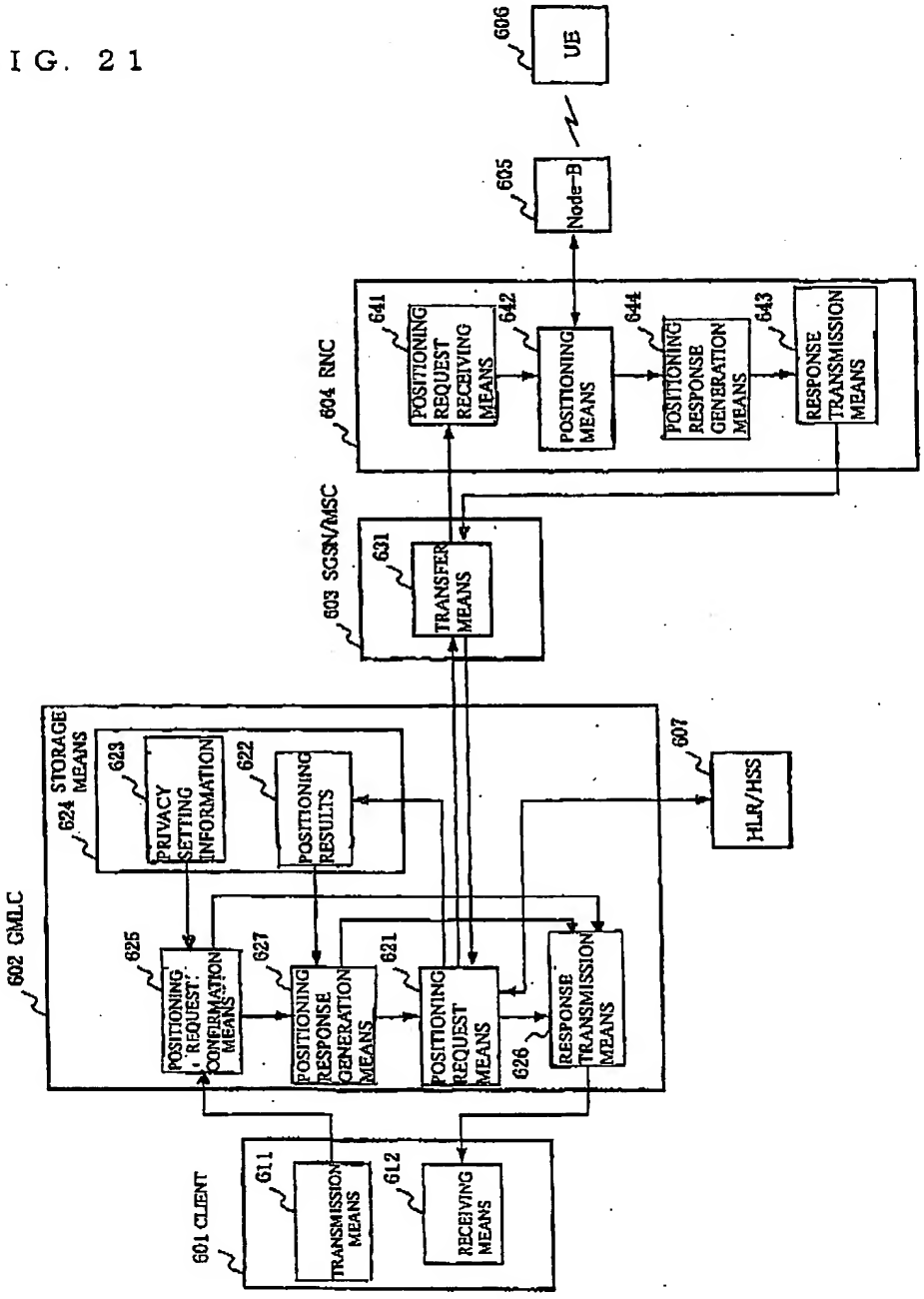
606
UE
605
Node-B
604 RNC
641
POSITIONING REQUEST RECEIVING MEANS
642
POSITIONING MEANS
644
POSITIONING RESPONSE GENERATION MEANS
643
RESPONSE TRANSMISSION MEANS
603 SGSN/MSC
631
TRANSFER MEANS
607
HLR/HSS
624 STORAGE MEANS
623
PRIVACY SETTING INFORMATION
622
POSITIONING RESULTS
602 GMLC
625
POSITIONING REQUEST CONFIRMATION MEANS
627
POSITIONING RESPONSE GENERATION MEANS
621
POSITIONING REQUEST MEANS
626
RESPONSE TRANSMISSION MEANS
601 CLIENT
611
TRANSMISSION MEANS
612
RECEIVING MEANS

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FIG. 22

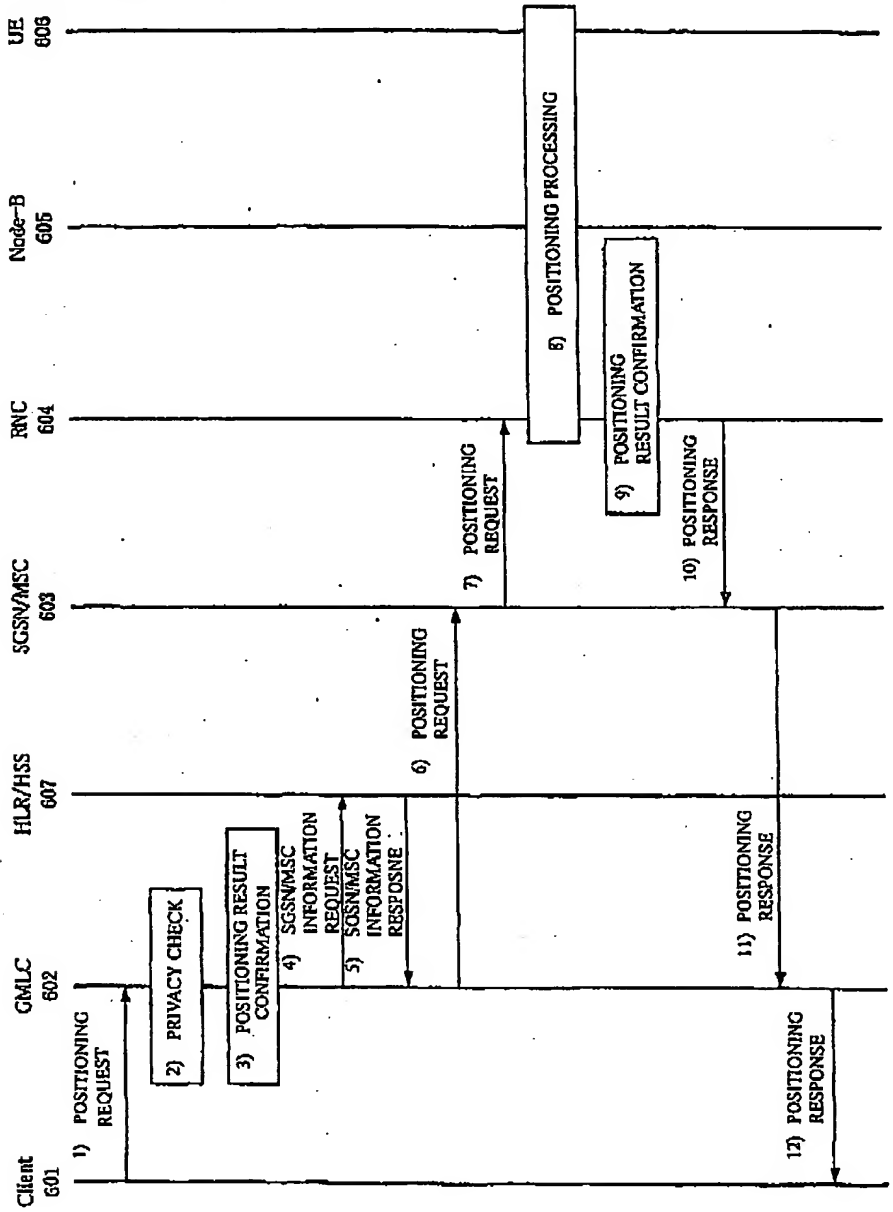


FIG. 23

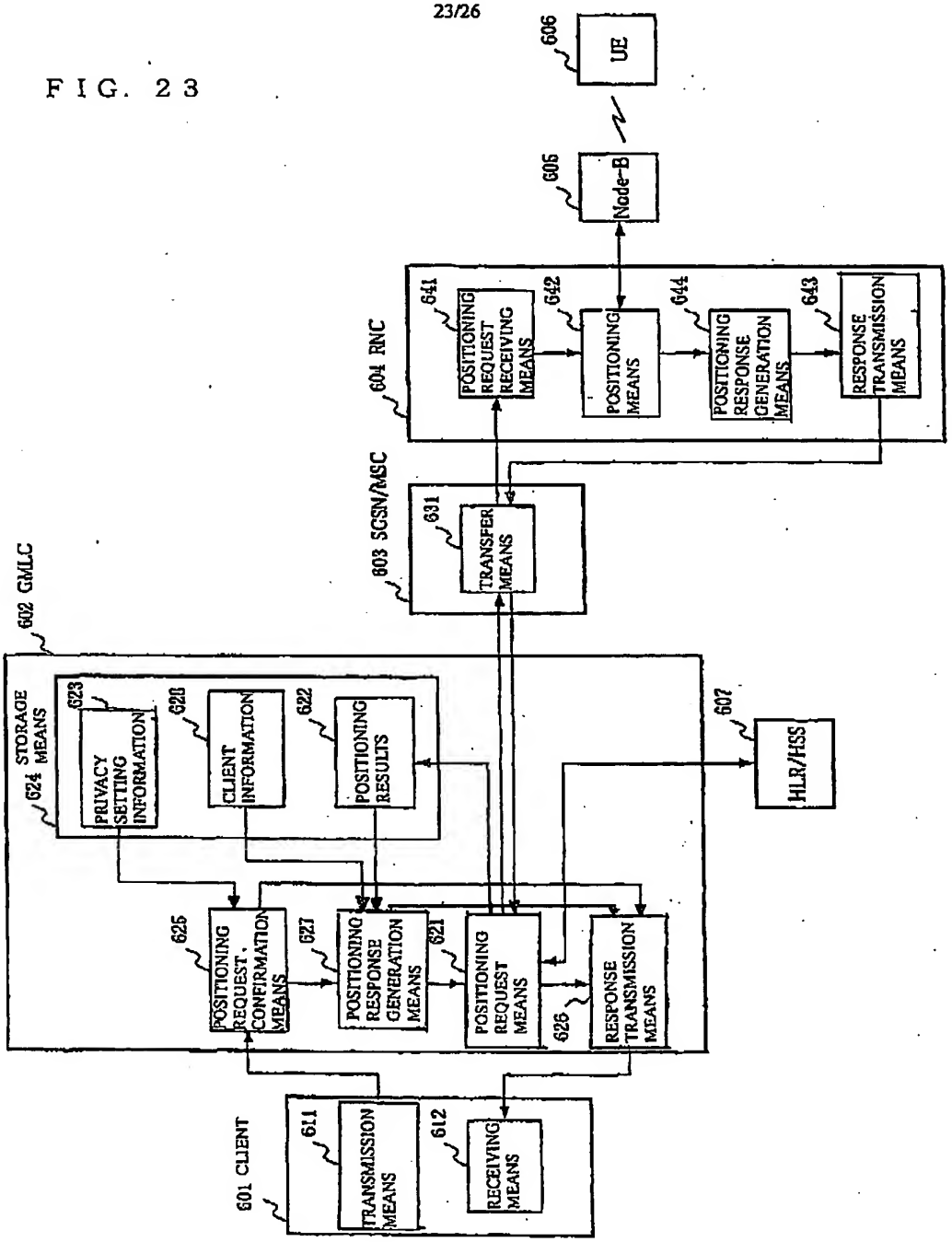

606
UE
605
Node-B
604 RNC
641
POSITIONING REQUEST RECEIVING MEANS
642
POSITIONING MEANS
644
POSITIONING RESPONSE GENERATION MEANS
643
RESPONSE TRANSMISSION MEANS
603 SGSN/MSC
631
TRANSFER MEANS
602 GMLC
624 STORAGE MEANS
623
PRIVACY SETTING INFORMATION
626
CLIENT INFORMATION
622
POSITIONING RESULTS
607
HLR/HSS
625
POSITIONING REQUEST CONFIRMATION MEANS
627
POSITIONING RESPONSE GENERATION MEANS
621
POSITIONING REQUEST MEANS
626
RESPONSE TRANSMISSION MEANS
601 CLIENT
611
TRANSMISSION MEANS
612
RECEIVING MEANS

FIG. 24

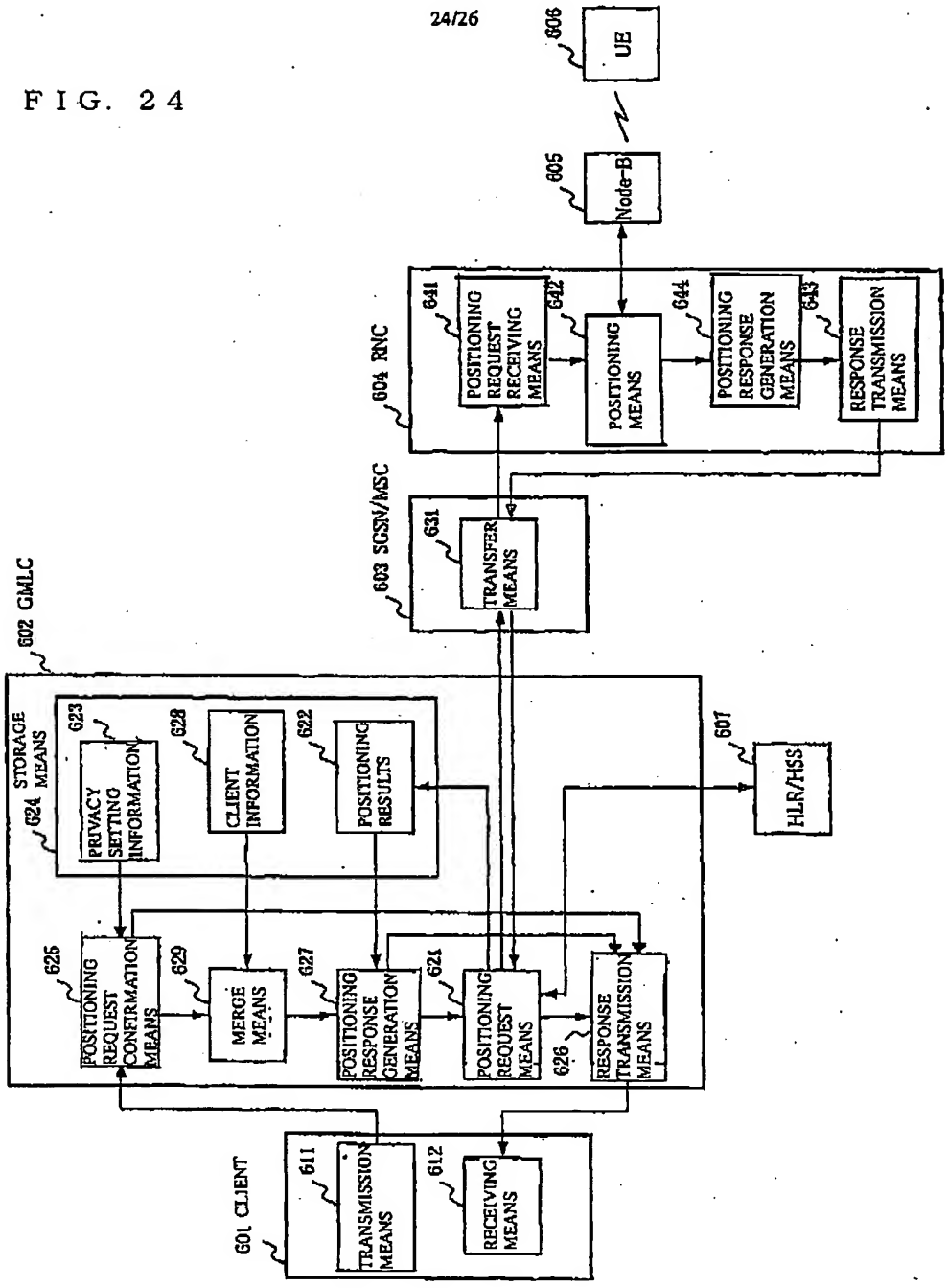
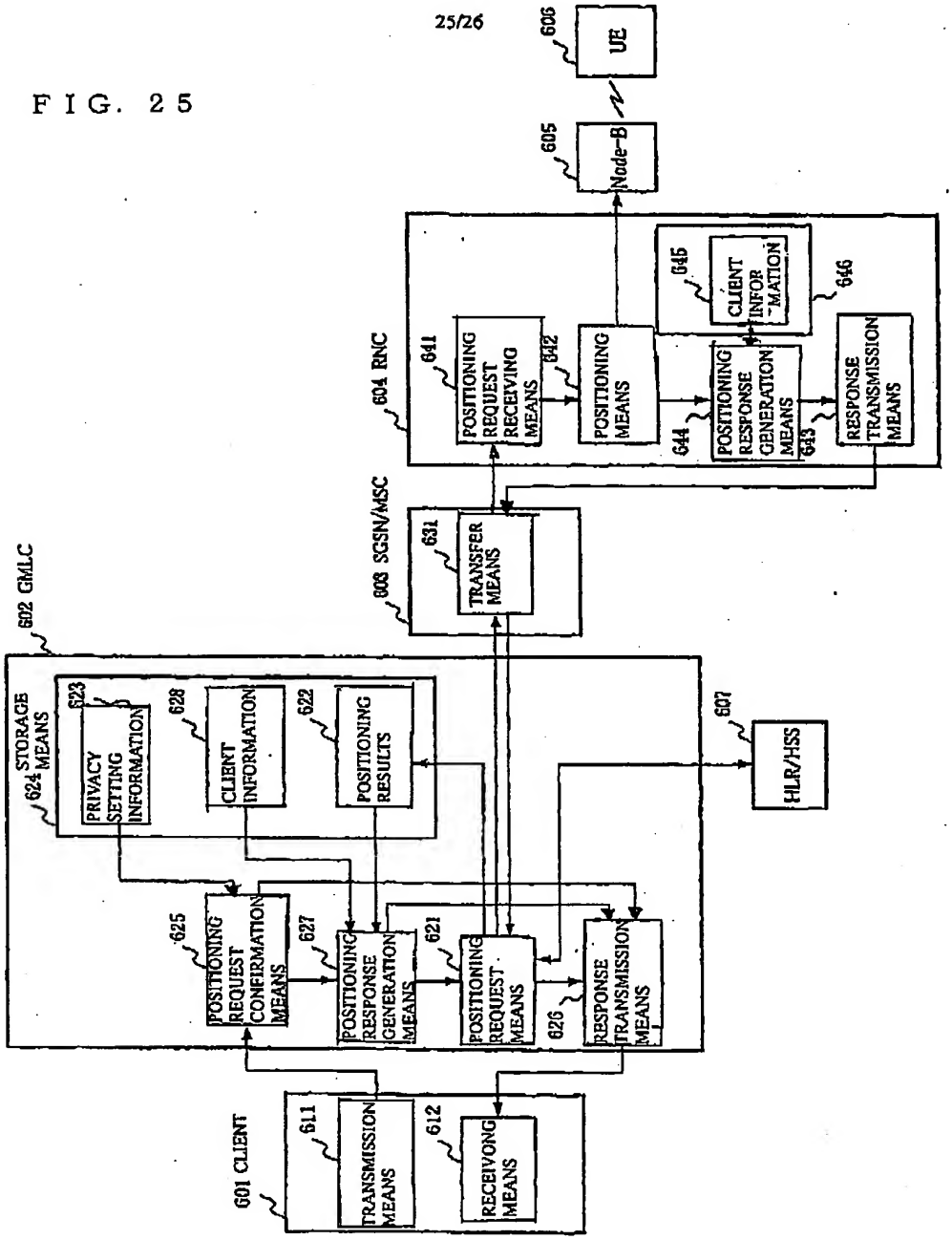

606 UE
605 Node-B
604 RNC
641 POSITIONING REQUEST RECEIVING MEANS
642
644 POSITIONING MEANS
643 POSITIONING RESPONSE GENERATION MEANS
RESPONSE TRANSMISSION MEANS
603 SGSN/MSC
631 TRANSFER MEANS
602 GMLC
STORAGE MEANS
623
624 PRIVACY SETTING INFORMATION
628 CLIENT INFORMATION
622 POSITIONING RESULTS
607 HLR/HSS
625 POSITIONING REQUEST CONFIRMATION MEANS
629 MERGE MEANS
627 POSITIONING RESPONSE GENERATION MEANS
621 POSITIONING REQUEST MEANS
626
RESPONSE TRANSMISSION MEANS
601 CLIENT
611 TRANSMISSION MEANS
612 RECEIVING MEANS

FIG. 25


606 UE
605 Node-B
604 RNC
641 POSITIONING REQUEST RECEIVING MEANS
642 POSITIONING MEANS
644 POSITIONING RESPONSE GENERATION MEANS
643 RESPONSE TRANSMISSION MEANS
645 CLIENT INFORMATION
646
603 SGSN/MSC
631 TRANSFER MEANS
602 GMLC
624 STORAGE MEANS
623 PRIVACY SETTING INFORMATION
628 CLIENT INFORMATION
622 POSITIONING RESULTS
607 HLR/HSS
625 POSITIONING REQUEST CONFIRMATION MEANS
627 POSITIONING RESPONSE GENERATION MEANS
621 POSITIONING REQUEST MEANS
626 RESPONSE TRANSMISSION MEANS
601 CLIENT
611 TRANSMISSION MEANS
612 RECEIVONG MEANS

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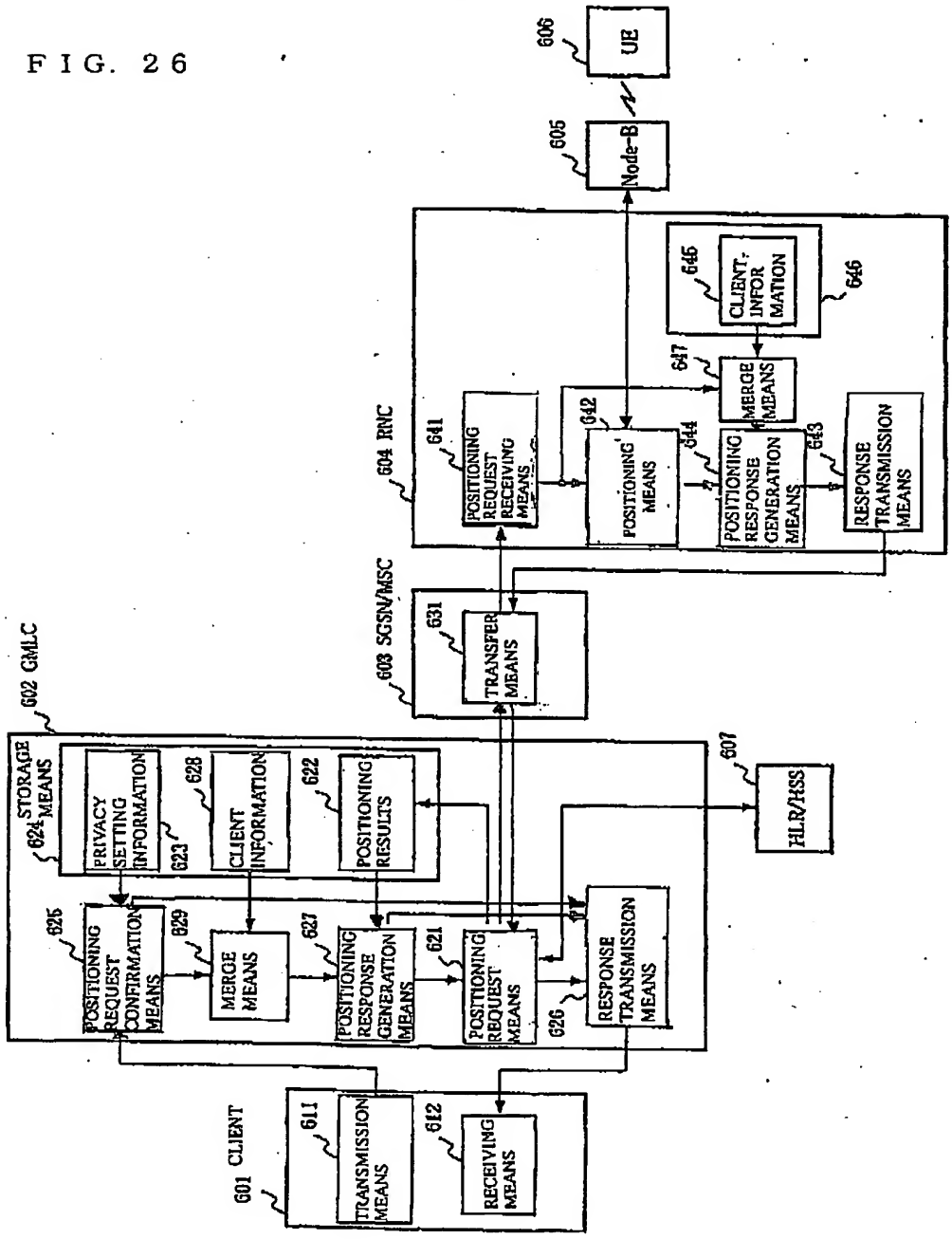
FIG. 26